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L. S. REBANO
ICE-BAGS AND HOT-WATER-BOTTLES
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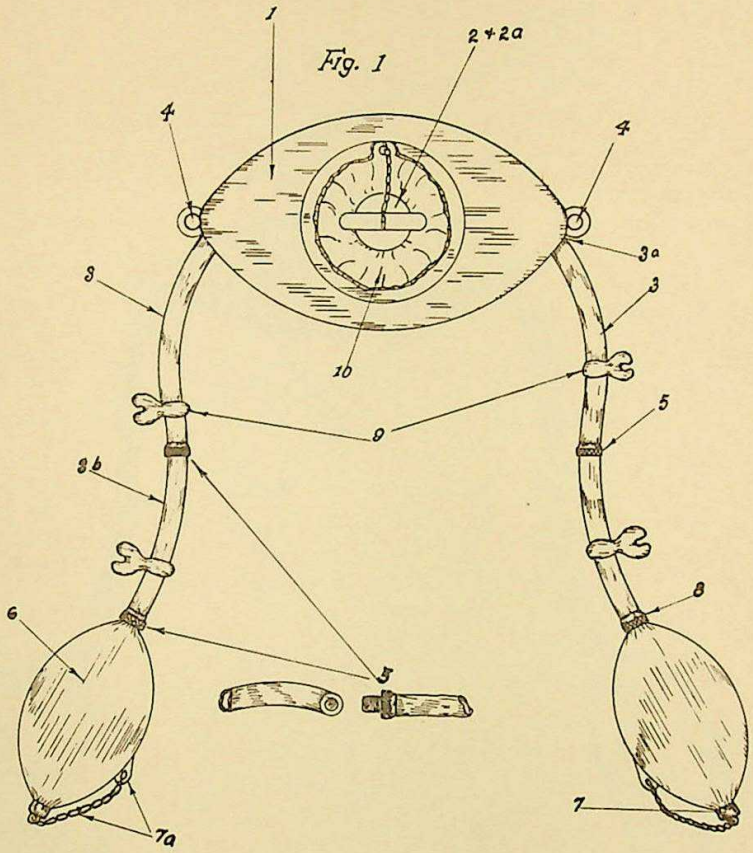
2 Sheets-Sheet 1



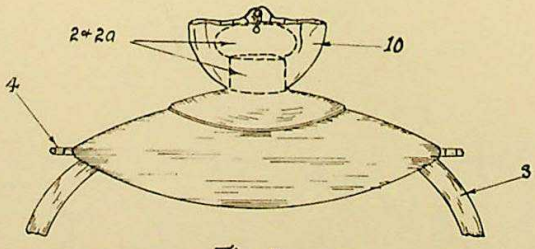


Fig. 5

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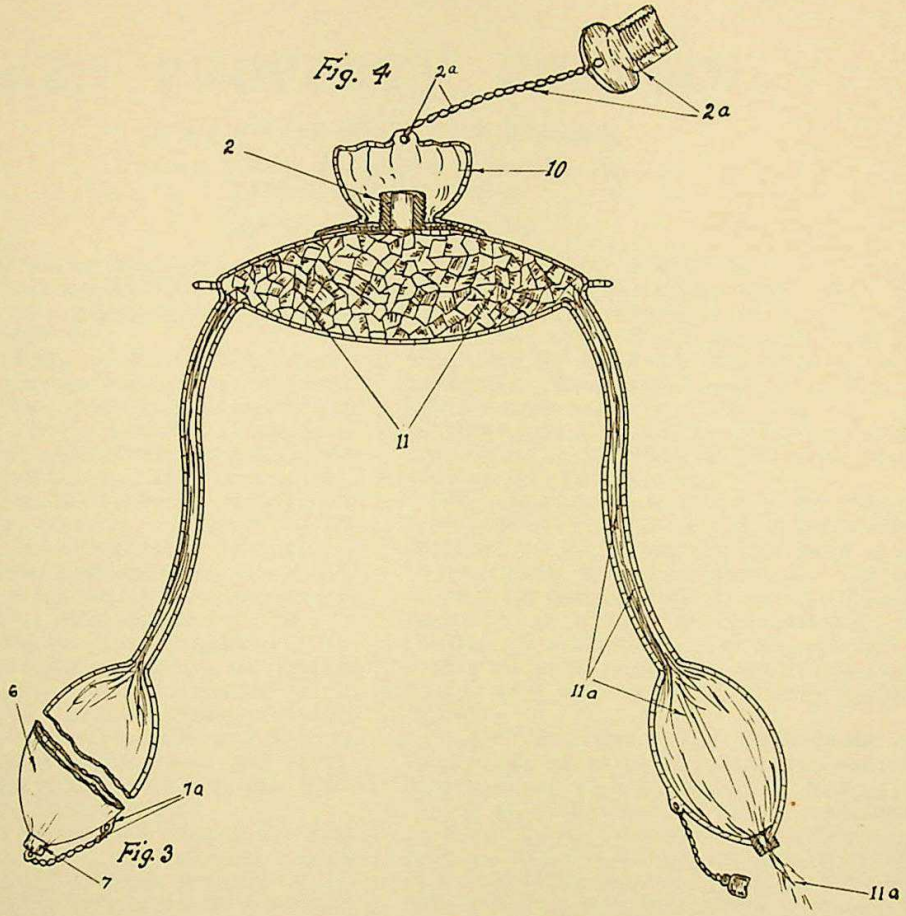
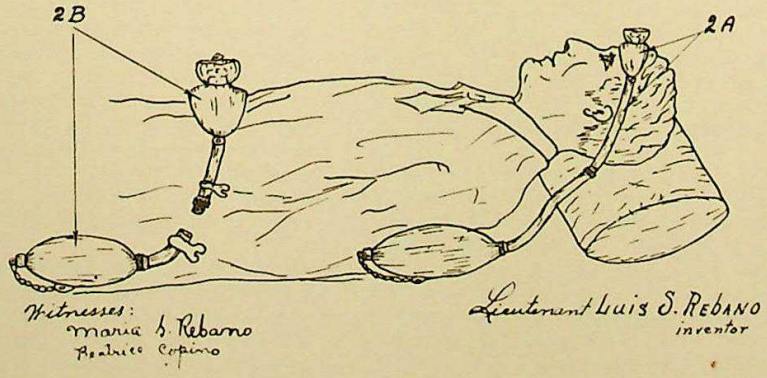


Fig. 2A & B



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ALIEN PROPERTY CUSTODIAN

ICE-BAGS AND HOT-WATER-BOTTLES

Luis S. Rebano, Tanauan, P. I., vested in the Alien Property Custodian

Application filed June 27, 1939

This invention relates to ice-caps or ice-bags and hot-water-bags or hot-water bottles. Its objects will appear from time to time in the course of the specification.

The primary object of this invention is the provision of a Rebano bag of this character, wherein pieces of ice or cool water is contained and covered and used for the treatment of headache, stomachache, chest pain, abdominal pain, swelling, high temperature, and other human ailments,—this Rebano bag having two waste-rubber tubes or tubings attached to each side of the bag proper which continuously drain the waste melted water therefrom into the receptacles attached to each lower end of the tubings—the bag proper, tubings, receptacles, tube clamps for clamping when necessary, the links for connecting and disconnecting which allow any number of assorted lengths of tubings for the needed length, pieces of ice or cool water, and all, in cooperation with one another, give gradual corresponding decrease in the device weight during the melting of the ice and treatment, and therefore, greater relief and comfort to the patient or user.

Another object of this invention is the provision of a Rebano bag of this character, having two rubber tubings attached to each side of the bag proper, through which the hot water passes in filling the receptacles attached to each lower end of the waste-rubber tubings—the bag proper, tubings, receptacles, tube clamps for clamping when necessary, the links for connecting and disconnecting which allow any number of assorted lengths of tubings for the needed length, hot water, and all, in cooperation with one another, are used as hot-water-bags or hot-water-bottles, wherein hot water, through its protected mouth, was first contained and covered, and this Rebano bag is used for treatment of stomachache, as compress for swelling, to give warmth to cool weak body, and for throat diseases when applied to the neck, etc.

A further object of this invention is the provision of a Rebano bag of this character, wherein two waste tubes or rubber tubings formed of assorted lengths are attached to each side of the bag proper which will continuously drain the waste melted water into the rubberized cushion-shaped receptacle, thereby decrease gradually, correspondingly the weight of the bag on the patient's forehead, and give increasing relief and comfort to the patient, and as no melted water stays or is left inside the bag proper, the remaining pieces of ice in its natural process of melting, melts slowly, rather, slower than if enhanced by the stay, if undrained, of the warming melted water inside the bag proper, which, likewise, gives vast saving of ice or means.

A further object of this invention is the provision of a Rebano bag of this character, which is simple in construction, thoroughly reliable and efficient in its operation, readily and easily contained or filled and emptied, economical, durable, inexpensive to manufacture, and gives greater relief and comfort to the user.

With these and other objects in view, this invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings, which disclose the preferred embodiment of the invention and pointed out in the claims hereunto appended.

This invention is more or less diagrammatically illustrated in the accompanying drawings wherein:

Figure 1 is a more or less diagrammatic perspective of the entire Rebano bag constructed in accordance with the invention, showing top view of the bag proper, its mouth, mouth-cover or screw stopper with which the mouth is covered. It also shows waste tubes or rubber tubings, receptacles, tube clamps, metal links, ears, strings as fasteners, and covers of receptacles.

Figures 2A and B are more or less diagrammatic views showing the following: A shows the Rebano bag containing pieces of ice applied on patient's aching head, the waste-tubes hanging freely, and the recetpacles on the bed without bearing weight on the forehead. B shows the bag proper and the receptacles used separately as hot-water-bags applied on aching stomach, and sides, to keep the cool, weak, operated body warm.

Figure 3 is a diagrammatic representation showing the cover, ear, and string of a receptacle.

Figure 4 is a half-section view of the entire Rebano bag showing pieces of ice and waste melted water. It also shows the principles used in the mouth and receptacles for opening and closing, and for connecting and disconnecting the tubes **3*a***, **3**, **3*b***, and **8**.

Figure 5 is a side view of the bag proper.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring to the drawings in detail, **1** is the bag proper, **2** is the mouth, **2*a*** is the mouth-cover or screw-stopper and string, **3** is a waste-tube or rubber tubing, **3*a*** is a point of tubing attachment to that side of the bag proper, **4**

shows the ears of the bag proper, 5 shows one of tubing links, 6 is one of the two receptacles, 7 is a recetpacle cover, 7*a* is string and ear of the recetpacle, 8 shows one link of the tubing to the receptacle, 9 shows the tube clamps, 10 is the rubberized mouth-protector of the bag proper when pouring hot water, 2*a* is also the string and ear of the mouth-protector, 11 shows pieces of ice, 11*a* shows waste melted water.

As in opening the hospital rubber ice-caps, the cylindrical mouth of this rubberized Rebano bag which is made of metal, rubber, or wood grooved spirally, is opened by twisting the cover 2*a* to the left several times. Once enough pieces of ice is placed in the ice chamber of this oval, cushion-shaped bag proper, below its neck is pressed around closed by the thumb and first finger of the left palm to exclude air, and cover again ready for use. This bag proper is placed flatwise and lengthwise between the temples on the patient's forehead as shown in Figure 2A if headache is the complaint, etc.

The natural tendency of the ice is to melt, and with the ice-caps in common use, the weight remains about the same on the patient's forehead even if the pieces of ice inside the bag is melting or all melted; and yet worse, for the melted thing or water as getting warm inside, increases the melting of the ice even faster than if pieces of ice alone are left in the ice-chamber of the bag proper.

While placed on the forhead as shown in Figure 2A and the ice inside the bag-proper chamber begins to melt, this device has two rubber tubings or waste-tubes 3 attached to each side of the bag which will continuously drain the melted water into the rubberized cushion-shaped receptacles 6, and will in effect, continuously, gradually lessen the weight of this bag on the patient's forehead. As no melted water will be left inside the bag proper, the remaining pieces of ice in the ice-chamber, in the process of melting, melts slowly, rather slower than if enhanced by the stay of melted water therein. If each receptacle 6 becomes filled with waste melted water from the chamber, the waste-water is emptied into a basin through its end 7 being just opened, then closed again. The rubber ears 4 attached to the bag, are for hanging after use. The connecting links 5 allow any number of assorted rubber tubings for the needed length that the receptacles will rest on any part of the bed desired, bearing no unnecessary weight on the head.

The bag proper alone is also used as any hot-water-bag in common use in hospitals by clamping first the tubings with 9, separating it from the receptacles as in Figure 2B, pouring hot water into the bag-proper chamber, closing same with air excluded, and applying on the abdomen if stomachache is the complaint, etc. But when more hot-water-bags are needed, the oval, cushion-shaped receptacles 6 are filled also with hot water through the opened mouth and chamber of the bag proper with the clamps first removed from the tubings, then applied back once the bag and receptacles are filled with hot water, then separating the three bags by detaching each from their links. These are applied separately to the feet and sides of patient after operation when necessary. The rubberized ear and string 7 and 7*a*, ties the cover 7 to the 7*a* to prevent loss of cover. The steel clamps 9, with which when both-side tubings are clamped, keep the hot water in the bag proper from flowing down the tubings into the receptacles; and the bag and receptacles can even be taken and used separately by simply applying the clamps to the respective bag tubings to prevent water flow.

The tubing 3 in Figure 1, is connected to that part of the bag proper 3*a* by joining the links or turning tubing 3 upper end to 3*a*; likewise tubing 3*b* upper end to tubing 3 lower end; etc., and when connected, they must be water and air-tight. For both ends of every two tubings to be connected, apply the principle used in Nos. 2 and 7, in Figure 4; and the same principle for each receptacle to tubing.

After use, and the ear 4 hangs the Rebano bag, readying for its safe-keeping, the cover 7 is opened that every drop of water in the interiors of the bag proper, tubings, and receptacles, will drop out; then they be strewn with powder to keep them in good condition.

Though this invention is preferably fabricated from rubber, I do not desire to limit my invention to the use of this one material and it is to be understood that many similar materials might be used in the manner here described.

LUIS S. REBANO.